

Human TREML2 / TLT2 Protein (His Tag)

Catalog Number: 11655-H08H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

C6orf76; dJ238O23.1; FLJ13693; MGC149715; MGC149716; TLT-2; TLT2; UNQ6268/PRO20473; AW049306; Gm750; Tlt2

Protein Construction:

A DNA sequence encoding the human TREML2 (NP_079083.2) extracellular domain (Met 1-Ser 268) was fused with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Gly 19

Molecular Mass:

The recombinant human TREML2 consists of 261 amino acids and has a predicted molecular mass of 28.5 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh TREML2 is approximately 55-60 kDa due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

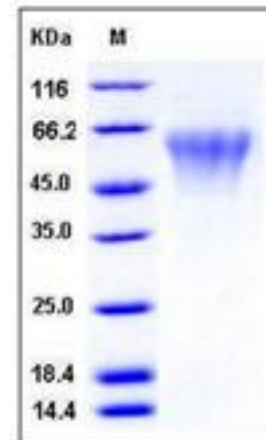
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Trem-like transcript 2 protein, also known as Triggering receptor expressed on myeloid cells-like protein 2, TREML2 and TLT2, is a single-pass type I membrane protein which contains one Ig-like V-type (immunoglobulin-like) domain. TREML2 is detected in cultured B cells, T cell leukemia and monocyte leukemia. TREML2 is expressed constitutively on CD8 T-cells and induced on CD4 T-cells after activation. TREML2 is a cell surface receptor that may play a role in the innate and adaptive immune response. TREML2 acts as a counter-receptor for CD276 and interaction with CD276 on T-cells enhances T-cell activation. Murine B7-H3 specifically bound to Triggering receptor expressed on myeloid cells (TREM)-like transcript 2 (TLT-2, TREML2). TREML2 was expressed on CD8(+) T cells constitutively and on activated CD4(+) T cells. Stimulation with B7-H3 transfectants preferentially up-regulated the proliferation and IFN-gamma production of CD8(+) T cells. Transduction of TREML2 into T cells resulted in enhanced IL-2 and IFN-gamma production via interactions with B7-H3. There maybe a direct interaction between B7-H3 and TREML2 that preferentially enhances CD8(+) T cell activation.

References

- 1.Mungall A.J. et al., 2003, Nature. 425: 805-11.
- 2.Clark HF. et al., 2003, Genome Res. 13: 2265-70.
- 3.The MGC Project Team. et al., 2004, Genome Res. 14:2121-7.

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Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>